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REPORT TO THE CONGRESS



Examination Of Financial Statements Of The Tennessee Valley Authority For Fiscal Year 1974

BY THE COMPTROLLER GENERAL OF THE UNITED STATES

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COMPTROLLER GENERAL OF THE UNITED STATES WASHINGTON, D.C. 20548

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To the President of the Senate and the Speaker of the House of Representatives

This is our report on the examination of the Tennessee Valley Authority's financial statements for fiscal year 1974, pursuant to the Government Corporation Control Act (31 U.S.C. 851).

We are sending copies of this report to the Director, Office of Management and Budget; the Secretary of the Treasury; and the Chairman, Board of Directors, Tennessee Valley Authority.

Comptroller General of the United States

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GAO TVA	General Accounting Office Tennessee Valley Authority	

COMPTROLLER GENERAL'S REPORT TO THE CONGRESS EXAMINATION OF FINANCIAL STATEMENTS OF THE TENNESSEE VALLEY AUTHORITY FOR FISCAL YEAR 1974

DIGEST

WHY THE EXAMINATION WAS MADE

This examination was made in accordance with the Government Corporation Control Act which requires the Comptroller General to audit financial transactions of the Tennessee Valley Authority (TVA).

OPINION ON FINANCIAL STATEMENTS

In GAO's opinion, TVA's financial statements present fairly its financial position at June 30, 1974 and 1973, and the results of its operations and the changes in the financial position of its several programs for the years then ended, in conformity with generally accepted accounting principles applied on a consistent basis. (See p. 23.)

OTHER MATTERS OF INTEREST

Power program

Operating results--At June 30, 1974, power program assets totaled \$4.809 billion, or about 87 percent of TVA's total assets. Operating revenues increased by \$134.2 million, or 18 percent, in fiscal year 1974. This increase, however, and a \$11.6 million increase in other income were more than offset by higher expenses, particularly higher cost fossil fuels and larger interest charges. As a result, net income of \$106.1 million in fiscal year 1974 was slightly less than that of the preceding year. (See p. 2.)

Of the \$106.1 million net income, TVA paid \$63.4 million into the Treasury as a return on the Government's investment in power facilities and the remaining \$42.7 million increased retained earnings. (See p. 3.)

In addition to the \$63.4 million, TVA paid \$20 million of power proceeds to the Treasury as partial repayment of the Government's investment in power facilities. The TVA Act required both payments. The Congress passed and the President vetoed a bill to allow TVA to credit its expenditures for certified pollution control facilities against these payments. (See p. 6.)

To assist in financing its power program, TVA issued \$450 million in bonds, bringing its outstanding notes and bonds to \$2.795 billion at June 30, 1974. This is within limitations of the act which permit a maximum outstanding concurrent debt of \$5 billion. (See p. 7.)

In July 1974, TVA's Board of Directors approved issuing short-term notes of up to \$350 million to the Federal Financing Bank. TVA issued a \$300 million bond to the bank in October 1974. (See p. 8.)

Rate adjustments--TVA raised its power rates by an average of 20 percent in January 1974 because of rising power system costs, particularly the cost of coal. Because of large and unpredictable variations in fuel costs, TVA adopted a fuel adjustment policy in

June 1974. Under this policy, TVA may adjust power rates monthly on the basis of month-to-month changes in the actual cost of fuel burned at its power plants. On the basis of actual fuel cost in June 1974, TVA raised its rates by about 3 percent, effective August 1974. (See pp. 4 and 5.)

Nuclear power developments--TVA's power generating capacity was 23.3 million kilowatts at June 30, 1974, an increase of 1.4 million kilowatts over the preceding year. A second unit of the Cumberland steam plant became operational on November 1, 1973, and accounted for most of the increase. (See p. 9.)

TVA plans to more than double its generating capacity over the next 10 years. If the six nuclear plants are completed by 1984, they will provide additional generating capacity of about 21.4 million kilowatts. TVA's first nuclear unit, at the Browns Ferry nuclear plant, began commercial operations on August 1, 1974. (See p. 9.)

Scheduled operational dates of TVA's nuclear units continue to slip. Unit 1 at Browns Ferry was delayed by about 4 years. Units 2 and 3, initially scheduled to begin commercial operation by October 1971 and October 1972, respectively, were rescheduled for December 1974 and September 1975. Overall the delay of the seven units under construction ranged from 5 to 8 months in fiscal year 1974. (See p. 11.)

According to TVA's estimates, about \$5.9 billion will be required to complete the major projects under construction or planned. (See p. 12.)

Coal procurement--Coal stockpiles at TVA's steam plants declined sharply, and prices rose to unprecedented levels in fiscal year 1974. TVA's short supply of coal and higher

prices were due to an imbalance of supply and demand and delinquent coal shipments.

About three-fourths of TVA's electric power was generated by 12 steam plants that burned 37.7 million tons of coal, costing about \$324 million, during the year. (See pp. 12 and 14.)

In August 1973, in response to a request for offers sent to 162 coal suppliers, TVA received 27 bids. TVA awarded contracts to 20 of the suppliers for delivery of 18.4 million tons, but this was not enough to meet projected needs.

In October 1973 TVA began exercising its emergency authority to purchase coal without advertising; however, the response continued to be poor. (See pp. 14 and 15.)

Coal deliveries to steam plants were as much as 24 percent short of that scheduled under TVA's long-term contracts. A variety of reasons were cited for the shortages. (See p. 16.)

In fiscal year 1974, TVA purchased coal at the highest price it had ever paid--166 percent above the previous year's average price. (See p. 17.)

TVA's objective was to maintain enough coal at its steam plants for 60- to 90-day continuous operation at the normal burn rate. However, by June 30, 1974, the supply had dropped to 23 days at two plants and 37 days at another plant.

Because of the declining coal stockpiles, TVA announced in August 1974 that electric power might be curtailed during the winter season and later asked that customers voluntarily reduce their use of electricity by 20 percent. (See p. 17.) A coal miners' strike from November 12 through December 5, 1974, further aggravated TVA's coal supply situation. Even though TVA took steps to lessen the impact of the strike, its systemwide coal supply dropped from 45 to 34 days during the strike period. However, TVA had increased its stockpiles to a 38-day supply at the end of 1974. (See p. 18.)

Fertilizer program

Development production--Implementation of an operating plan--which TVA estimated would save about \$6 million--will not proceed on schedule because of the fluctuating fertilizer market conditions. Eventually, TVA plans to substitute commercial, wet-process phosphoric acid for

TVA-produced, electric-furnace acid as a source of phosphates and to shift its production of fertilizer ingredients from solid nitrates to urea. (See pp. 18 to 20.)

RECOMMENDATIONS OR SUGGESTIONS

This report contains no recommendations or suggestions.

MATTERS FOR CONSIDERATION BY THE CONGRESS

This report, required by law, informs the Congress of the operations and financial condition of TVA.

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CHAPTER 1

INTRODUCTION

The Tennessee Valley Authority (TVA) is an independent Government corporation created by the Tennessee Valley Authority Act of May 18, 1933 (48 Stat. 58, 16 U.S.C. 831), to improve the public usefulness of the Tennessee River and to assist in the development of other resources in the Tennessee Valley and adjoining areas. TVA generates, transmits, and sells electric power; helps control floods; promotes navigation on the Tennessee River; develops fertilizers and munitions; and participates in the development of recreational, agricultural, and other resources in the Tennessee Valley.

TVA activities are directed by its three-member Board of Directors. Members of the Board are appointed by the President, with the advice and consent of the Senate, to serve 9-year overlapping terms. The President also designates one member as Chairman. As of June 30, 1974, the Board members and the expiration dates of their terms were:

Aubrey J. Wagner, Chairman	May	18,	1978
Don McBride	May	18,	1975
William L. Jenkins	May	18,	1981

Mr. Lynn Seeber, TVA's General Manager, is responsible to the Board for carrying out its programs, policies, and decisions.

Additional information on TVA activities can be found in its annual report to the President and to the Congress, issued pursuant to the TVA Act.

CHAPTER 2

GENERAL COMMENTS ON PROGRAMS AND ACTIVITIES

In addition to providing for our examination of the financial statements, the Government Corporation Control Act (31 U.S.C. 851) provides that our reports include information and comments as may be appropriate to keep the Congress informed of the financial condition and operations of each corporation.

POWER PROGRAM

As part of its resource development program, TVA supplies power at wholesale prices to 160 municipal and cooperative electric systems which distribute the power to more than 2.4 million customers in parts of seven States. TVA also serves directly 47 industrial customers with large or unusual power requirements and several Federal atomic, aerospace, and military installations.

Financially, TVA's power program is separate from its other programs. The power program is self-supporting, and part of the net income earned under the program is used to pay a return on appropriated funds invested in TVA's power facilities and to repay the investment.

Operating results

Power program assets increased by \$456 million during the year and totaled \$4.809 billion at June 30, 1974, or about 87 percent of TVA's total assets of \$5.499 billion. TVA's power operations results for fiscal years 1974 and 1973 are shown on page 3.

	<u> 1974</u>	<u> 1973</u>	Percent increase or decrease (-)
	(000 or	mitted)	
Operating revenues: Sales of electric energy Rents	y \$863,643 19,983	\$729,031 20,349	
Total operating revenues	883,626	749,380	18
Operating expenses	679,499	577,429	18
Operating income Other income and deductions	204,127 <u>85,411</u>	•	
Income before interest charges Interest charges	289,5 3 8 18 3 ,384	•	
Net income Payment of return on appropriation investment	106,154	106,421 53,785	•
Increase in retaine	d <u>\$ 42,732</u>	\$52 , 636	<u> </u>

Exhibit II presents the details of the power program's operating results.

The volume of electric energy sold increased only slightly, about 3 percent, in fiscal year 1974 over the preceding fiscal year. This small growth rate was due mostly to a warmer-than-normal winter and a cooler-than-normal summer. Most of the increase which did occur resulted from larger sales to those industries served directly by TVA.

A midyear rate adjustment and the small increase in sales volume resulted in operating revenues that were \$134.2 million, or 18 percent, higher in fiscal year 1974 than in 1973. However, this increase, plus the \$11.6 million increase in other income, was more than offset by a \$102.1 million, or 18 percent, increase in operating expenses and a \$44.1 million,

or 32 percent, increase in interest charges. As a result, net income in fiscal year 1974 was slightly less than that of 1973.

About \$85.4 million, or 84 percent, of the \$102.1 million increase in operating expenses was due to higher production expense, which increased primarily because of higher cost fossil fuels used in power generation. As in previous years, interest charges increased because of the continued growth of TVA's debt and because of higher interest rates.

Although the appropriation investment continued to decline, TVA's payment to the Treasury as a return on that investment increased by \$9.6 million, or 18 percent, because of an increase in the interest rate prescribed by the TVA Act. In 1975, the payment will be about \$8 million more than it was in 1974 because of a further rate increase.

Earnings available to reinvest in the power program were about \$9.9 million, or 19 percent, less in 1974 than in 1973.

Rate adjustments

The TVA Act requires TVA to sell power at rates as low as possible but high enough to maintain the financial soundness of the power program. TVA and a committee representing distributors review current and prospective power revenues and expenses quarterly. On the basis of the review, the Board of Directors determines whether a rate adjustment is needed. The Board approved a raise in the power rates, which averaged about 20 percent, effective January 1974 because of rising power system costs, particularly coal costs.

Because of large and unpredictable variations in fuel costs, in July 1974 the Board approved having charges for electric power, beginning in August, reflect monthly increases or decreases in the actual cost of fuel burned at TVA power plants. TVA determines the amount of the increase or decrease in fuel costs and publishes necessary rate changes about the middle of the month preceding each billing. Under this adjustment about 3 percent was added to August bills on the basis of the cost of fuel burned in June 1974. TVA continues to make quarterly reviews, pursuant to provisions

in its customer contracts, of power system revenues and expenses to determine whether other rate adjustments are necessary.

Proprietary capital and payments to the Treasury

The Government's total proprietary capital in TVA was \$2.548 billion at June 30, 1974, and \$1.882 billion, or 74 percent, of this amount was in the power program. Changes in proprietary capital during fiscal year 1974 are shown in the following tabulation.

	Change					
	Power	Total				
	(0	00 omitted	(£			
Appropriation investment: Congressional appropriations Transfers of property from	\$ 135	\$45,541	\$45,676			
other Federal agencies	323	76	399			
Togg Managements to several	458	45,617	46,075			
Less repayments to general fund of the Treasury	-20,000		-20,012			
Appropriation invest- ment	-19,542	45 , 605	26,063			
Net income of power program	106,154	-	106,154			
Net expense of nonpower programs	_	-41,489	-41,489			
Less payment of return on appropriation investment	-63,422	_	<u>-63,422</u>			
Net increase in pro- prietary capital	\$ 23,190	\$ 4,116	\$27,306			

Section 15d of the TVA Act requires the corporation to pay to the Treasury each year, beginning with fiscal year 1961, a return on the appropriation investment in power facilities. The required payment is based on the average interest rate payable by the Treasury on its total marketable public obligations at the beginning of the fiscal year. The rate is applied to the unrepaid appropriation investment on that date. In fiscal year 1974 the payment of return was \$63.4 million, which brought total return payments since 1961 to \$686 million.

Section 15d also requires a repayment of the appropriation investment in power facilities beginning in fiscal year 1961. The required repayments are: \$10 million annually for the first 5 years (1961-65), \$15 million annually for the next 5 years (1966-70), and \$20 million every year thereafter until \$1 billion has been repaid. Under specified conditions the Board may defer payments for not more than 2 years, but the Board has not exercised that option. TVA's repayment of \$20 million in fiscal year 1974 brought the cumulative payments under this provision to \$205 million. Under legislation in effect before the 1961 repayment provision, TVA has repaid \$185 million to the Treasury, making the total repayment \$390 million.

Section 26 of the act provides for annual payments to the Treasury of any power or nonpower proceeds not needed for the operation of dams and reservoirs, the operation of the power program, or the manufacture and distribution of fertilizers. TVA had paid \$41.6 million from nonpower proceeds under this provision through June 30, 1974.

In fiscal year 1975 TVA will be required to pay the Treasury from power proceeds \$71.4 million as a return on the \$1.015 billion unpaid appropriation investment in power facilities as of July 1, 1974 (based on an average interest rate of 7.03 percent being paid by the Treasury on its total marketable public obligations) and \$20 million as a repayment of that investment.

Late in the 93d Congress the House and Senate passed a bill to amend section 15d of the TVA Act to provide that, beginning with fiscal year 1976, TVA's expenditures for certified pollution control facilities may be credited against the annual payments required as a return on the

appropriation investment in power facilities and the repayment of the investment. However, the President vetoed the bill after the Congress adjourned.

Borrowing authority

TVA is authorized, under section 15d of the act, to issue and sell bonds, notes, and other evidences of indebtedness up to \$5 billion outstanding at any one time to help finance its power program. Section 15d states that the time of issuance and the maximum interest rates to be borne by the obligations are subject to approval by the Secretary of the Treasury, who is authorized to purchase TVA interim obligations up to \$150 million outstanding at any one time. Debt service on these obligations is payable solely from TVA's net power proceeds and has precedence over repayments of the appropriation investment and payments of a return on investment to the Treasury. Outstanding notes and bonds totaled \$2.795 billion at June 30, 1974.

Section 3.4 of the Basic Tennessee Valley Authority Power Bond Resolution adopted October 6, 1960, prohibits any increases in outstanding bonds unless a power income test specified in the resolution is met. To meet the test, net power income for the last 5 fiscal years must have aggregated at least:

\$200 million,

plus

\$15 million for each one-quarter of 1 percent (or major fraction thereof) by which the interest on Treasury borrowings has averaged more than 3.25 percent during the 5 years.

TVA met the minimum net income requirement for the 5 years ended June 30, 1973, and sold \$450 million in bonds in four issues during fiscal year 1974. TVA's net power income for these 5 years aggregated \$463 million, and the minimum net power income requirement for that period was \$320 million.

Short-term notes payable to the public totaled \$570 million at June 30, 1974--an increase of \$90 million since June 30, 1973. Short-term notes payable to the Treasury at June 30, 1974, totaled \$100 million, the same as at June 30, 1973.

The Federal Financing Bank Act of 1973 (Public Law 93-224), approved December 29, 1973, created the Federal Financing Bank and provided for coordinated and more efficient financing of Federal and federally assisted borrowings from the public. Although the TVA Act authorizes the agency to sell debt obligations to the public, it is also authorized to use the facilities of the Federal Financing Bank. On July 11, 1974, the TVA Board approved the issuance of a maximum of \$350 million in short-term notes payable to the bank. On that same date, the Board rescinded an earlier approval of the direct issuance of \$100 million in bonds to the public. On October 30, 1974, the Board approved the issuance of a \$300 million bond payable to the bank.

CONSTRUCTION ACTIVITIES

At June 30, 1974, the book value of TVA's fixed assets was \$5.146 billion, an increase of \$445 million from June 30, 1973. A summary of the fiscal yearend balances and changes, by major category of fixed assets, follows.

	Ba	lance	Increase or
	June 30, 1974	June 30, 1973	<u>decrease (-)</u>
		_(000 omitted)	
Completed			
plant, net	\$3,380,433	\$3,221,140	\$159 ,2 93
Construction			
in progress	1,631,931	1,381,324	250,607
Investigations for future			
projects	3,819	5,484	-1,665
Nuclear fuel,			
net	129,943	93,090	36,853
	\$5,146,126	\$4,701,038	\$445,088

TVA's power program assets accounted for 83 percent of the completed plant at June 30, 1974, and power facilities accounted for 95 percent of the construction in progress and investigations for future projects at that time.

At yearend, TVA's installed power generating capacity was 23.3 million kilowatts, an increase of about 1.4 million kilowatts over the previous year's capacity. Most of the increase resulted from accepting a second unit at the Cumberland steam plant on November 1, 1973, for commercial operation, which provided additional capacity of 1.3 million kilowatts.

To meet the projected growth of power demands, TVA plans to more than double its power generating capacity over the next 10 years. By 1984, TVA's planned generating capacity will be about 47 million kilowatts. Six nuclear plants, containing 17 generating units, will provide about 21.4 million kilowatts of the new capacity. Peaking capacity—units normally used only during periods of highest power demands—is scheduled to be boosted by installing additional gas turbines and constructing a pumped—storage hydroelectric project.

TVA awarded a contract in May 1974 for a 10-unit, 678,000 kilowatt gas turbine plant to be erected at the Johnsonville steam plant site by the summer of 1975. TVA is planning to install 10 additional gas turbine units--6 more for the Johnsonville site and 4 for a site near the Gallatin steam plant--that will add another 738,000 kilowatts to its generating capacity.

Five nuclear projects and a pumped-storage project under construction or proposed at June 30, 1974, will increase TVA's generating capacity by 17.8 million kilowatts. TVA's estimates of the scheduled dates for commercial operation of the 17 units constituting these projects follow.

	•	Scheduled				
	Generating	Nameplate	commer	cial se	rvice da	
	unit	capacity			Fisca.	Ĺ
	number	(<u>kilowatts</u>)	<u>Origi</u>	<u>nal</u>	year l	974
Browns Ferry	1	1,152,000	Oct.	1970	aAug.	1974
nuclear plant	` 2	1,152,000	Oct.	1971	Dec.	1974
_	3	1,152,000	Oct.	1972	Sept.	1975
		3,456,000				
Raccoon Mountain						
pumped-storage	1	382,500	Sept.	1974.	Dec.	1975
project	2	382,500	Dec.	1974	Feb.	1976
ţy	3	382,500	Mar.	19 7 5	Apr.	1976
•	4	382,500	June	1975	June	1976
		1,530,000				
		ن نام المتحدد المتحدد				
Sequoyah nuclear	1	1,220,580	Oct.	1973	Aug.	1976
plant	2	1,220,580	Apr.	1974	Apr.	1977
		2,441,160				
Watts Bar	1	1,269,900	Oct.	1976	Nov.	1978
nuclear plant	2	1,269,900	Apr.	1977	Aug.	1979
		2 520 000				
		2,539,800				
Bellefonte	1	1,332,000	July	1977	Dec.	1979
nuclear plant	. 2	1,332,000	Apr.	1978	Sept.	1980
		2,664,000				
		2,004,000				
Proposed						
Hartsville	1	1,285,000	Apr.	1979	Dec.	1980
nuclear plant	2	1,285,000	Apr.	1980	Dec.	1981
<u> </u>	3	1,285,000	Oct.	1979	June	1981
·	4	1,285,000	Oct.	1980	June	1982
		5,140,000				
		3,140,000				
	<u>17</u>	17,770,960				

aActual.

At the close of fiscal year 1974, TVA was evaluating bids for four additional nuclear generating units but had not selected plant sites. These units are to provide a total capacity of 5.2 million kilowatts and were tentatively scheduled for operation in the 1982-84 timeframe.

Unit 1 of the three-unit Browns Ferry nuclear plant, near Athens, Alabama, reached 100-percent power level on March 24, 1974, and was accepted for commercial operation on August 1, 1974. The unit's output of 1.098 million kilowatts on March 24 set a world record for a single nuclear unit. Construction of the Browns Ferry plant (see photograph on p. 13) was 94-percent complete at June 30, 1974. The Raccoon Mountain, Sequoyah, and Watts Bar projects were 55-, 65-, and 10-percent complete, respectively, at June 30, 1974. Construction of the Bellefonte and proposed Hartsville projects was scheduled to begin in fiscal year 1975.

Commercial operation of unit 1 at Browns Ferry was originally scheduled to begin in October 1970, almost 4 years before commercial operation actually began. Units 2 and 3, originally scheduled for operation in October 1971 and October 1972, were not expected to be operational until December 1974 and September 1975. Commercial operation dates are also being rescheduled for the units at the Sequoyah and Watts Bar plants. In fiscal year 1974, estimated completion dates of the seven nuclear units under construction were extended from 5 to 8 months. Some reasons for the construction delays were technical difficulties in meeting Atomic Energy Commission requirements for environmental protection and engineered safeguards, delays in equipment deliveries, and modifications in the scope of project features.

Unit 1 of the Raccoon Mountain pumped-storage project is scheduled for commercial operation in December 1975 and the other three units are scheduled to follow at 2-month intervals. When the project is operational, water will be

¹ The Atomic Energy Commission was abolished by the Energy Reorganization Act--Public Law 93-438, Oct. 11, 1974--and its functions were transferred to the newly created Energy Research and Development Administration and Nuclear Regulatory Commission.

pumped from the Tennessee River into a mountaintop reservoir during offpeak power periods and released to generate electric energy during peak periods.

For fiscal year 1974, TVA's capital outlay under the power program totaled \$525 million, most of which was for additions to generating capacity. The estimated cost to complete the major power projects was \$5.9 billion.

COAL PROCUREMENT

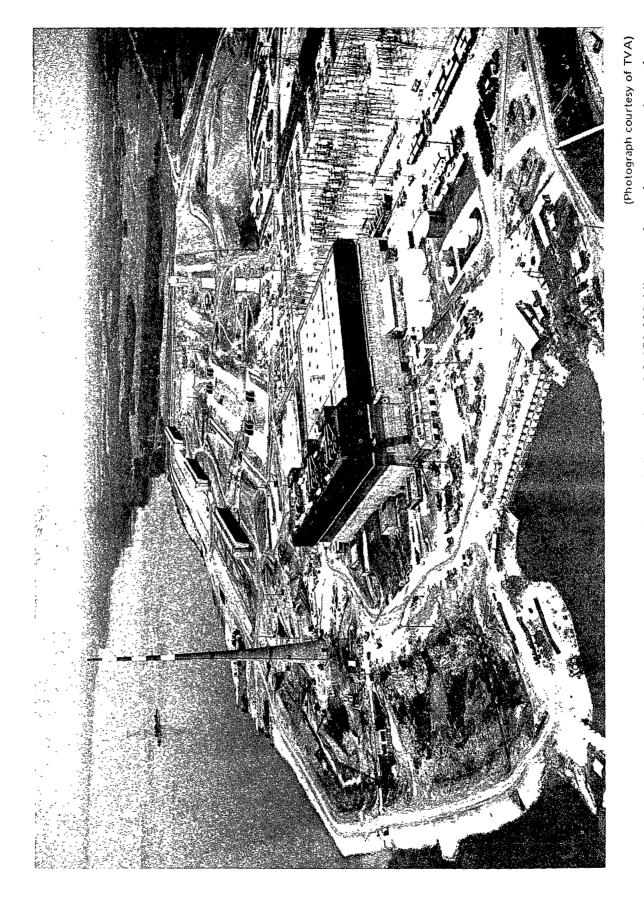
In fiscal year 1974 TVA's procurement of coal became progressively complicated because of decreasing supply and increasing demand. TVA was unable to obtain sufficient quantities at acceptable prices to offset deficiencies in deliveries. As a result, coal inventories at steam plants declined sharply and TVA purchased coal at the highest price it had ever paid.

Coal-fired steam plants accounted for about three-fourths of TVA's electric generating capacity and actual power generation; the other one-fourth was comprised of hydroelectric, nuclear, and turbine units, as shown in the table below.

			Installed capacity		Generation fiscal year 1974	
			June 30,	1974	Kilowatt	
	Numbe	er		 	hours	
	Plants	Units	<u>Kilowatts</u>	Percent	(millions)	Percent
Coal-fired						
steam	12	63	17,749,585	76.1	84,084.1	76. 5
Hydro-						
electric	29	109	^a 4,472,645	19.2	^a 23,536.3	21.4
Nuclear	(b)	(b)	(b)	(b)	1,947.6	1.8
Gas turbine	2	28	1,096,800	$\frac{4.7}{}$	291.7	.3
Total sy	stem		23,319,030	100.0	109,859.7	100.0

aIncludes capacity and generation of 20 hydroelectric units not owned by TVA.

bUnit 1 at Browns Ferry produced power when in test operation.



Browns Ferry nuclear plant. The plant, with total installed capacity of 3,456,000 kilowatts from three generating units, was about 94-percent complete at June 30, 1974. TVA accepted unit 1 for commercial operation on August 1, 1974.

In fiscal year 1974 TVA's steam plants burned 37.7 million tons of coal costing about \$324 million. By 1980, annual coal consumption at the steam plants is expected to increase to 46 million tons as the demand for electric power increases. TVA's power system will be heavily dependent on coal well into the future, notwithstanding the planned construction of numerous nuclear power units, as discussed on page 9.

TVA made term, spot, and emergency purchases of coal. Both term and spot purchases were made under competitive bidding procedures; the delivery schedules for term contracts were 6 months or longer and for spot contracts were 4 weeks or less. Emergency purchases were made without advertising under section 9(b) of the TVA Act. TVA's operating policy provides that, when the coal stockpile at any one steam plant is insufficient for 60 days' continuous operation, an emergency exists and contracts may be made by negotiation in lieu of advertising. TVA attempts to maintain a 60- to 90-day reserve stockpile at its steam plants in case of interruptions in coal production or transportation. On July 1, 1973, these reserves totaled approximately 12.5 million tons, or about a 100-day supply.

In August 1973 TVA received 27 proposals in response to a solicitation sent to 162 coal suppliers. During October and November 1973, TVA awarded contracts to 17 of the 27 bidders; negotiated contracts with 3 bidders whose bids were initially rejected as nonresponsive; and attempted, unsuccessfully, to negotiate contracts with 3 other bidders who had submitted nonresponsive bids. The 20 contracts provided for delivery of about 86,000 tons of coal weekly, or a total of 18.4 million tons. However, this was not enough to meet projected burn requirements and maintain satisfactory coal inventories at the steam plants.

In October 1973 TVA concluded that a seller's market was developing because new mine development was lagging behind increasing coal demand. TVA pointed out that the following matters greatly contributed to the national coal shortage:

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- --Production of bituminous coal (the principal type of coal burned in TVA power plants) was down 2 percent and utilities consumption was up about 10 percent from calendar year 1972 levels.
- --Federal and State legislation, primarily governing health and safety of miners and reclamation of stripmined lands, reduced coal production.
- --Opening of new mines had been hampered by uncertainty regarding Federal and State laws on air pollution and fears of more stringent strip-land reclamation requirements.

TVA expected the coal demand to increase further due to shortages of competing fuels (oil and natural gas) and the failure of nuclear fueled generating capacity to become operational as rapidly as anticipated.

In October 1973 the TVA Board of Directors attempted to reverse its dwindling stockpiles by deciding that a state of emergency existed and by authorizing coal purchase without advertising, pursuant to section 9(b) of the TVA Act. Section 9(b) requires that all purchases and contracts for supplies and service (except personal services) made by TVA shall be based on advertising except in certain instances as cited in the act, including emergency situations requiring immediate supply delivery or service performance.

On October 12, 1973, TVA issued a request for proposals soliciting offers from more than 200 potential suppliers to sell coal to TVA under negotiated term contracts, but the response was poor. In December 1973 TVA expanded the solicitation to include offers for delivery terms of less than 6 months, and the agency continued to make spot purchases under advertised awards. However, since TVA was able to purchase only small tonnages of coal through its advertisements, it suspended the use of these advertisements in March 1974 and began to make all spot purchases on the basis of negotiation.

Through June 30, 1974, TVA's negotiation efforts had resulted in 16 term contracts (primarily to replace expiring contracts) for 6.8 million tons and 17 spot contracts for 213,353 tons.

In its October 1973 issue of requests for proposals, TVA indicated its willingness to consider offers containing contract provisions that differed from its normal requirements, except those provisions required by law or regulations, TVA's reclamation provisions, and its coal quality guarantees. However, TVA continued to require prospective surface-mined coal suppliers to submit reclamation and conservation plans for TVA's approval and to include provisions in term contracts for the reclamation and conservation of affected lands. Contracts of less than 6 months' duration contain technical provisions similar to those of term contracts, except a mining plan and a reclamation withholding account are not required.

TVA's coal purchasing problems were increased by poor delivery service. During fiscal year 1974, deliveries under term coal contracts were about 24 percent short of schedule.

TVA officials said a shortage of rail cars was a major delivery problem. Deficiencies in deliveries were also caused by, among other things, compliance with the Federal Coal Mine Health and Safety Act of 1969. Because market prices for coal exceeded TVA's term contract prices, some contractors restricted deliveries and other contractors stopped deliveries altogether. According to TVA, it initiated legal action against five contractors to compel deliveries under their contracts. In June 1974, the U.S. District Court permanently enjoined one contractor from selling coal to other purchasers until it had made deliveries to TVA, as required by the contract. In two other cases injunctions to the same effect were brought against contractors, another case was resolved by agreement between the contracting parties, and one case is pending.

Other reasons for the failure of some contractors to fulfill their contracts include: strikes, mine closures, shortages of operating supplies and spare parts, equipment breakdowns, unrealistic performance estimates, and mine safety and reclamation laws.

In addition, coal suppliers were reluctant to make longer term contracts with TVA and the quality of the coal delivered declined. Although TVA often awards coal contracts covering periods of 15 years or longer, the average length of term contracts negotiated in fiscal year 1974 was about

30 months. Because of the lower quality of coal received, additional quantities were needed to make up the loss in heat content.

During the year the prices TVA paid for coal rose sharply as its coal stockpiles declined. TVA's average cost of coal received in fiscal year 1974 was \$8.54 a ton, compared to \$7.44 a ton in fiscal year 1973. In 1974, spot purchases resulted in consistently higher prices each month, increasing from a low of 33 cents per million Btu's¹ (average delivered price) in July 1973 to a high of 55 cents in March 1974, a 67-percent increase. Because of its concern about escalating prices, in late 1973 and early 1974 TVA rejected nine offers from suppliers to sell about 685,000 tons of coal at prices the agency considered excessive.

Under a term contract awarded in June 1974, TVA will pay 93 cents per million Btu's. This price is 166 percent higher than the average cost of 35 cents per million Btu's in 1973 and was the highest price TVA had paid for coal. In 1974, TVA adjusted power rates so that customers' monthly billings reflected the effect of increases or decreases in the actual cost of fuel burned, as discussed on pages 4 and 5.

Coal stockpiles at TVA's steam plants decreased from about 12.5 million to 8.8 million tons, or about 30 percent, during fiscal year 1974. This represented a decline from a 100- to a 69-day supply at the expected burn rate. Although TVA attempted to maintain a 60- to a 90-day coal supply at June 30, 1974, inventories at individual steam plants were as low as a 23-day supply at two plants and a 37-day supply at a third plant.

On August 15, 1974, TVA announced that it might require electric power curtailments during the 1974-75 winter season—winter is the period of highest power demand in the TVA service area—because of its decreasing coal stockpiles and the difficulty in obtaining additional coal supplies. Moreover, on September 24, 1974, TVA requested that its power customers

¹British thermal unit (Btu) is the amount of heat required to raise the temperature of 1 pound of water 1 degree Fahrenheit.

voluntarily reduce their use of electricity by 20 percent to conserve coal.

On August 27, 1974, a Member of Congress asked our Office to evaluate TVA's coal supply situation. In our report (B-114850, Nov. 4, 1974) we discussed the reasons for the coal shortage, the possible effects of a shortage, the plans made and actions taken by TVA, and additional steps which TVA and others could take to avoid cutbacks in electric service.

TVA's coal stockpiles declined further with the miners' strike from November 12 to December 5, 1974. During this period, TVA purchased additional electric energy from other utilities, reduced electric service to the Atomic Energy Commission, and took other steps to lessen the impact of the strike. Nevertheless, TVA's systemwide stockpiles declined from a 45-day to a 34-day supply during the strike period.

At the end of 1974, TVA's stockpiles contained a 38-day supply of coal at the normal burn rate. Consumption of electricity had declined 10 percent from a year earlier, apparently a result of the cutback of power to the Atomic Energy Commission, milder temperatures, and conservation efforts.

FERTILIZER PROGRAM

TVA's National Fertilizer Development Center at Muscle Shoals, Alabama, administers a nationwide program consisting primarily of (1) basic and applied research and development and (2) introduction of new and improved fertilizers to the farming and fertilizer manufacturing industries.

Although the program was established to serve domestic needs, during the early 1960s TVA shared the results of its fertilizer research with foreign countries through the Agency for International Development and other international organizations. This led to TVA's establishing an International Fertilizer Development staff to coordinate international activities of the center. In June 1974 TVA reported that since its international program began in 1963, more than 50 teams of scientists have traveled to 30 countries to assist in the analysis and development of fertilizer production units or marketing and distribution systems.

Developmental production

Developmental production of new and improved fertilizers was carried out at Muscle Shoals on a semicommercial scale and was the link between the research and development and the farm and industry demonstrations. In 1969, TVA developed a plan to restructure its developmental production program primarily to reduce costs, improve its basic production facilities, and make use of more desirable fertilizer ingredients.

TVA's planned changes were substitution of commercial wet-process phosphoric acid for TVA-produced electric-furnace acid as a source of phosphates and a shift from the production of solid nitrates to fertilizers containing urea. According to TVA, the new plan will save about \$6 million in facility expenditures during fiscal years 1972 through 1976. However, TVA had not fully carried out the scheduled plan because of unsettled fertilizer marketing conditions and the lack of sufficient quantities of wet-process phosphoric acid.

Shifting the production of basic phosphate raw materials and intermediates from TVA to private producers was not completed at June 30, 1974, as planned. According to TVA, wet-process acid sells at a price below the production cost of furnace acid and the margin continues to widen in favor of wet-process acid. Using commercial sources would eliminate TVA's high operating costs for mining, electric-furnace, and acid unit operations; avoid large expenditures for maintenance and replacement of basic facilities; and avoid large capital outlays for meeting pollution and worker safety standards.

Through June 30, 1974, TVA had been unable to find a reliable, economic supply of wet-process acid, and as a result the agency expected to continue operating its phosphorus production facilities through December 1976. TVA estimated that, during fiscal years 1976 through 1980, its annual requirements for wet-process acid (in units of P_2O_5) will be 90,000 tons. TVA had solicited bids for a supply of the acid in July 1971, September 1973, and January 1974. In response to the July 1971 solicitation, TVA received four bids and bought 7,000 tons of wet-process acid. No bids were received from the other two solicitations.

Book value of the phosphorus facility was \$10.2 million at June 30, 1974. One of the three furnaces was retired in fiscal year 1972 but was later brought back into use, and the other furnaces were to be retired by June 30, 1974. Because the revived facility will be operating after Alabama's air pollution regulations become effective on May 31, 1975, TVA spent \$296,000 in fiscal year 1974 and has budgeted about \$1 million for fiscal year 1975 to modify the facility to comply with the new regulations.

Dropping the production of granular nitrate and nitrate-phosphate fertilizers will conclude TVA's distributor introduction program for these materials and processes. TVA started making this change in fiscal year 1974 when it converted a portion of its facilities from nitrate to ureabased production. This change will reduce operating expenses; limit the need for investment in new facilities, including those for abating nitric acid pollution; and provide storage that would otherwise have to be built for fertilizers containing urea. TVA's original schedule provided that it would discontinue production of nitrate materials by June 30, 1973; however, it delayed closing its nitrate production facilities a few months because the facilities had not been completely modified for urea-based fertilizer production.

In October 1973 TVA retired two of its three nitric acid units that originally cost \$1.5 million but had a net book value of about \$106,000. In July 1974 TVA had not decided on the disposition of the final unit and was studying methods of operating the nitrate facilities in compliance with Alabama's air pollution standards.

OTHER MATTERS

In a report to the Congress (B-167941, Sept. 20, 1974), GAO recommended that, when making benefit-cost analyses for Federal water resources projects, TVA and certain other agencies and departments should:

--Revise or develop their detailed procedures for making benefit-cost determinations and submit them to the Water Resources Council.

- --Periodically evaluate their detailed procedures to recognize changed objectives, needs, and conditions and improved methods and procedures.
- --Strengthen their internal management procedures for assessing (1) benefit-cost determinations for conformance to governing principles and standards, (2) implementing and detailed procedures, and (3) the completeness and adequacy of supporting documentation.

The recommendations in our report were directed toward carrying out the Water Resource Council's new principles and standards. TVA said it had no objection to our recommendations.

CHAPTER 3

SCOPE OF EXAMINATION

Our examination of TVA's balance sheet as of June 30, 1974 and 1973, and the related statements of power and non-power programs and of changes in financial position for the years then ended (exhibits I through IV) was made in accordance with generally accepted auditing standards and included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

As provided by section 15d(c) of the TVA Act, TVA employs a firm of certified public accountants to audit its accounts and financial statements for each fiscal year, to facilitate its issuance and sale of revenue bonds. This audit does not take the place of the audit required by our Office under the Government Corporation Control Act. As a part of the examination, we observed and tested the firm's audit work, and our satisfaction with its quality and scope enabled a substantial reduction in the extent of our own examination.

CHAPTER 4

OPINION ON FINANCIAL STATEMENTS

In our opinion the financial statements (exhibits I through IV) present fairly TVA's financial position at June 30, 1974 and 1973, and the results of its operations and the changes in the financial position of its several programs for the years then ended, in conformity with generally accepted accounting principles applied on a consistent basis.

The supplemental information appearing in schedules A to F, inclusive, which has been subjected to audit procedures applied in the examination of the basic financial statements, is, in our opinion, fairly stated in relation to the basic financial statements taken as a whole.

TENNESSEE VALLEY AUTHORITY (A CORPORATION WHOLLY OWNED BY THE UNITED STATES OF AMERICA) BALANCE SHEETS JUNE 30, 1974 AND 1973

ASSETS

	Power	program	All programs		
	1974	1973	1974	1973	
		(Thou	sands)		
PROPERTY, PLANT, AND EQUIPMENT, substantially all at original cost		į			
Completed plant; schedule A Multipurpose dams; note 1 Single-purpose dams Steam production plants Other electric plant Other plant	\$ 489,745 65,869 2,137,260 1,369,060 4,061,934	\$ 489,435 65,736 1,944,471 1,320,837 	\$1,015,509 65,869 2,137,260 1,369,060 173,541 4,761,239	\$1,014,358 65,736 1,944,471 1,320,837 <u>164,522</u> 4,509,924	
Less accumulated depreciation and depletion; note 2 Completed plant, net	1,242,414 2,819,520	1,156,187 2,664,292	1,380,806 3,380,433	1,288,784 3,221,140	
Construction and investigations in progress; schedule B and note 3	1,551,961	1,318,645	1,635,750	1,386,808	
Nuclear fuel	133,345	93,090	133,345	93,090	
Less accumulated provision for amortization; note 2 Nuclear fuel, net	3,402	93,090	3,402	93,090	
Total property, plant, and equipment	4,501,424	4,076,027	5,146,126	4,701,038	
CURRENT ASSETS					
Cash	82,723	63,356	111,187	110,082	
Accounts receivable	94,437	71,333	104,358	79,241	
Inventories, principally at average cost	128,681	140,772	136,118	146,473	
Total current assets	305,841	275,461	351,663	335,796	
DEFERRED CHARGES					
Unamortized debt expense; note 2	891	701	891	701	
Other	552	600	552	600	
Total deferred charges	1,443	1,301	1,443	1,301	
Total assets	\$ <u>4,808,708</u>	\$4,352,789	\$ <u>5</u> ,499,232	\$ <u>5</u> ,038,135	

Notes 1 through 8 following the exhibits are an integral part of the financial statements. *Deduct

LIABILITIES

,	Power program		All programs	
	1974	1973	1974	1973
		(Thous	ands)	
PROPRIETARY CAPITAL		1		
Appropriation investment; note 4 Total congressional appropriations Transfers of property from other	\$1,383,467	\$1,383,332	\$2,683,500	\$2,637,824
. Federal agencies	21,840 1,405,307	21,517 1,404,849	54,100 2,737,600	53,701 2,691,525
Less repayments to General Fund of the U.S. Treasury; note 5 Appropriation investment	390,059 1,015,248	370,059 1,034,790	431,686 2,305,914	411,674 2,279,851
Retained earnings reinvested in the power program; exhibit II	866,418	823,686	866,418	823,686
Accumulated net expense of nonpower programs; exhibit III			624,025*	582,536*
Total proprietary capital	1,881,666	1,858,476	2,548,307	2,521,001
LONG-TERM DEBT				
Principal; note 6	2,125,000	1,775,000	2,125,000	1,775,000
Unamortized discount* and premium, net; note 2	8,604*	6,551*	8,604*	6,551*
Total long-term debt	2,116,396	1,768,449	2,116,396	1,768,449
SHORT-TERM NOTES				
U.S. Treasury; note 6	100,000	100,000	100,000	100,000
Other; note 6	570,000	480,000	570,000	480,000
Unamortized discount; note 2	13,901*	7,130*	13,901*	7,130*
Total short-term notes	656,099	572,870	656,099	572,870
OTHER CURRENT LIABILITIES				
Accounts payable	112,295	115,146	122,429	125,654
Employees' accrued leave	13,431	12,871	24,388	23,033
Payrolls accrued	6,738	6,104	9,530	8,255
Interest accrued	22,083	17,972	22,083	17,972
Total other current liabilities	154,547	152,093	178,430	174,914
CONTRIBUTIONS IN AID OF CONSTRUCTION; exhibit IV		901		901
COMMITMENTS; note 3				
Total liabilities	\$ <u>4,808,708</u>	\$4,352,789	\$5,499,232	\$5,038,135

EXHIBIT II

TENNESSEE VALLEY AUTHORITY

POWER PROGRAM
NET INCOME AND RETAINED EARNINGS
FOR THE YEARS ENDED JUNE 30, 1974 AND 1973

,	197	4	1973	
	kWh	Amount	kWh	Amount
		(Thou	sands)	
OPERATING REVENUES Sales of electric energy				
Municipalities and cooperatives Federal agencies Industries Electric utilities Total outside sales Interdivisional Total sales of electric energy Rents Total operating revenues	64,182,511 17,388,119 23,790,067 122,191 105,482,888 661,841 106,144,729	\$556,166 121,552 179,767 1,166 858,651 4,992 863,643 19,983 883,626	63,822,013 17,112,478 21,864,681 92,169 102,891,341 581,272 103,472,613	\$476,354 103,166 144,732 791 725,043 3,988 729,031 20,349 749,380
OPERATING EXPENSES; schedule C Production Transmission Customer accounts Demonstration of power use Administrative and general Payments in lieu of taxes Social security taxes Provision for depreciation Total operating expenses		494,156 20,847 494 1,283 29,907 31,118 4,611 97,083		408,765 18,921 498 1,272 27,379 27,310 3,816 89,468 577,429
Operating income		204,127		171,951
OTHER INCOME AND DEDUCTIONS Interest income Allowance for funds used (construction and nuclear fuel); note 2 Other, net Total other income and deductions		85,992 581* 85,411		73,357 418 73,800
Income before interest charges		289,538		245,751
INTEREST CHARGES		/,/30		791JL
Interest on long-term debt Other interest expense; note 2 Amortization of long-term debt discount expense, and premium, net; note 2	t,	149,178 33,787		111,399 27,642 289
Total interest charges		183,384		139,330
NET INCOME		106,154		106,421
Payment of return on appropriation investore 5	tment;	63,422		53,785
Increase in retained earnings rein	nvested	42,732		52,636
Retained earnings reinvested at beginning	g of period	823,686		771,050
Retained earnings reinvested at en	nd of period	\$ <u>866,418</u>		\$ <u>823,686</u>

Notes 1 through 8 following the exhibits are an integral part of the financial statements.

^{*}Deduct

TENNESSEE VALLEY AUTHORITY

NONPOWER PROGRAMS NET EXPENSE AND ACCUMULATED NET EXPENSE FOR THE YEARS ENDED JUNE 30, 1974 AND 1973

	1974	1973
·	(Thousands)	
WATER RESOURCES DEVELOPMENT	•	l
Navigation operations	d	
Studies and investigations	\$ 1,047	\$ 975
Operation and maintenance of facilities Total expense of navigation operations	5,107	4,985
	0,234	2,900
Flood control operations	0-1	
Studies and investigations Operation and maintenance of facilities	894	1,166
Local flood control improvements	4,194	3,930
Total expense of flood control operations	<u> 441</u>	<u> </u>
	5,529	5,103
Recreation projects	<i>(</i> /-	.
Recreation resources development	665	682
Operation and maintenance of facilities Total expense of recreation projects	1,846	$\frac{1,785}{2,1.67}$
- · · ·	2,511	2,407
Regional water quality management	1,546	1,563
Fisheries and waterfowl resources development	540	494
Preliminary surveys and engineering (including		
\$605,000 in 1974, and \$2,065,000 in 1973 related to abandoned projects)	0/2	0 -06
	<u>863</u>	2,526
Total expense of water resources development	17,223	18,113
FERTILIZER AND MUNITIONS DEVELOPMENT		
Developmental production		
Cost of products distributed	26,336	26,912
General expenses	·	
Loss on retirements of manufacturing plant	_	
and equipment, net	1,004	71
Gain on sale of phosphate reserves, net	_ 99*	134*
Other general expenses Total general expenses	1,163	1,018
Total production expense	2,068	955
Less transfers and sales of products	28,404	27,007
Transfers to TVA programs, at market prices		
Fertilizer industry demonstrations	22,475	19,748
Farm test demonstrations	431	345
Agricultural projects	422	169
Other	95	61
D2	23,423	20,323
Direct sales Total transfers and sales	43 <u>1</u>	70
Net expense of developmental production	23,854	<u>20,393</u>
	4,550	7,474
Fertilizer introduction		
Fertilizer industry demonstrations		
Fertilizers used	22,475	19,748
Educational distribution expense	1,392	1,291
Less industry payments for fertilizer	23,867	21,039
inggrand balmonds for relativet	22,057	19,094
*Todust	1,810	<u> 1,945</u>
*Deduct		

EXHIBIT III

TENNESSEE VALLEY AUTHORITY

NONPOWER PROGRAMS

NET EXPENSE AND ACCUMULATED NET EXPENSE FOR THE YEARS ENDED JUNE 30, 1974 AND 1973

	1974	1973
	(Thousands)	
FERTILIZERS AND MUNITIONS DEVELOPMENT - continued Fertilizer introduction - continued Farm test demonstrations outside the Valley		
Fertilizers used	\$ 431	\$ 345
Planning and supervision	661	624
Less farmer payments for fertilizer	1,092 283 809	969 192 777
Net expense of fertilizer introduction	2,619	2,722
Research and development	5,650	5,553
Net expense of fertilizer and munitions		
development	12,819	15,749
GENERAL RESOURCES DEVELOPMENT Agricultural projects Agricultural resource development		
Fertilizers used	416	169
Planning and supervision	946	909
Less farmer payments for fertilizer	1,362 356	1,078
Topo ratural ballurator for fat attitude	1,006	988
Development investigations and general expenses Net expense of agricultural projects	1,610 1,610	509 1,497
Forest and wild land resources development Tributary area development	1,522 2,209	1,367 1,755
Interagency health services demonstrations Regional development planning	120 636	914
Townlift community improvement	744	723
Demonstrations in education and manpower development	731	803
Minerals projects	269	274
Environmental quality projects	492	430
Net expense of general resources development	8,333	7,763
LAND BETWEEN THE LAKES OPERATIONS	2,498	2,306
VALLEY MAPPING AND REMOTE SENSING	482	<u>469</u>
OTHER EXPENSE, NET	134	
NET EXPENSE; schedule D	41,489	44,400
Accumulated net expense at beginning of period	582,536	538,136
Accumulated net expense at end of period	\$624,025	\$ <u>582,536</u>

Notes 1 through 8 following the exhibits are an integral part of the financial statements.

TENNESSEE VALLEY AUTHORITY CHANGES IN FINANCIAL POSITION FOR THE YEARS ENDED JUNE 30, 1974 AND 1973

	Power program	All programs		
	<u> 1974 </u>	1974 1973		
	(Thous	sands)		
SOURCE OF FUNDS		1		
Program sources				
Net power income; exhibit II	\$ 106,154 \$ 106,421	\$ 106,154 \$ 106,421		
Add items not requiring funds; note a	12,404 16,241	<u> 12,404</u>		
Funds from power operations	118,558 122,662	118,558 122,662		
Sale of power facilities	1,904 665	<u>1,904</u> 665		
Funds from power program; note b	120,462 123,327	120,462 123,327		
Not armong of nonnegon programs.				
Net expense of nonpower programs; exhibit III		41,489* 44,400*		
Add items not requiring funds; note a		8,283 7,547		
Funds used in nonpower operations		33,206* 36,853*		
Sale of nonpower facilities		761 1,131		
Funds used in nonpower programs		32,445* 35,722*		
7				
Debt sources				
Long-term bonds Issues	450,000 550,000	450,000 550,000		
Redemptions	100,000*	450,000 550,000 100,000* -		
Short-term notes	200,000	100,000		
Issues	1,375,000 1,520,000	1,375,000 1,520,000		
Redemptions	1,285,000* 1,670,000*	1,285,000* 1,670,000*		
Total debt sources	440,000 400,000	440,000 400,000		
013				
Other sources	125 006*	he (a) (1, 550		
Congressional appropriations Property transfers	135 226* 323 212	45,676 64,550		
Contributions in aid of construction	323 212	399 343		
(reclassified in 1974 to property,				
plant, and equipment)	901* . 3	901* 3		
•				
Total source of funds	\$ <u>560,019</u> \$ <u>523,316</u>	\$ <u>573,191</u> \$ <u>552,501</u>		
DISPOSITION OF FUNDS				
Expended for plant and equipment, excluding				
allowance for funds used	\$ 443,745 \$ 407,715	\$ 474,896 \$ 431,436		
Less salvage from plant transfers, and				
depreciation charged to construction and	1, 506	(
clearing accounts	4,506 2,282 439,239 405,433	6,922 4,714		
Payments to U.S. Treasury; note 5	409,433	467,974 426,722		
Return on appropriation investment	63,422 53,785	63,422 53,785		
Repayment of appropriation investment	20,000 20,000	20,012 20,029		
	83,422 73,785	83,434 73,814		
Unamortized debt discount and expense				
Long-term discount	2,411 1,931	2,411 1,931		
Short-term discount	6,771 1,611	6,771 1,611		
Debt expense	<u>250</u> <u>261</u>	<u>250</u> <u>261</u>		
Changes in working capital (increase or	9,432 3,803	9,4323,803		
decrease*)				
Cash	19,367 12,593	1,105 23,247		
Accounts receivable	23,104 10,163	25,117 8,788		
Inventories	12,091* 31,449	<u>10,355</u> * <u>31,908</u>		
Less other current liabilities	30,380 54,205	15,867 63,943		
ress owner currents transfilles	2,454 13,910 27,926 40,295	$\frac{3,516}{10,351}$ $\frac{15,781}{10,351}$		
	27,926 40,295	12,351 48,162		
Total disposition of funds	\$_560,019	\$ 573,191 \$ 552,501		
WD-1 /				
*Deduct				

EXHIBIT IV

TENNESSEE VALLEY AUTHORITY CHANGES IN FINANCIAL POSITION FOR THE YEARS ENDED JUNE 30, 1974 AND 1973

NOTES:

a. Items not requiring funds:

	Power		Nonpower	
	1974	1973	1974	1973
		(Thous	ands)	
Provisions for depreciation Provisions for depletion Loss or gain* on retirements and	\$97,083 266	\$89,468 211	\$7,370 8	\$7,600 10
disposals of property, plant, and equipment, net Amortization of long-term debt	581	418 *	905	63 *
discount, premium, and expense; and deferred charges - other Allowance for funds used	466	337	-	-
(construction and nuclear fuel)	85,992*	<u>73,357</u> *		
	\$12,404	\$ <u>16,241</u>	\$ <u>8,283</u>	\$ <u>7,547</u>

b. Net power proceeds (see note 6) may be derived as follows:

	Year ended June 3		
	1974	1973	
	(Thous	sands)	
Funds from power program Add back interest charges	\$120,462 182,965	\$123,327 139,041	
Net power proceeds	\$ <u>303,427</u>	\$ <u>262,368</u>	

Notes 1 through 8 following the exhibits are an integral part of the financial statements.

^{*}Deduct

TENNESSEE VALLEY AUTHORITY NOTES TO FINANCIAL STATEMENTS

1. Allocation of cost of multipurpose projects--Section 14 of the TVA Act requires TVA's Board of Directors to allocate the cost of completed multipurpose projects, subject to the approval of the President of the United States. The cost of facilities installed exclusively for a single purpose is assigned directly to that purpose; the cost of multiple-use facilities is allocated among the various purposes served.

The total investment of \$1,015,509,000 in completed multipurpose dams at June 30, 1974, is classified as follows:

	Investment						
	Direct	Multiple-use	Total				
		(Thousands)					
Power	\$312,299	\$177,446	\$ 489,745				
Navigation	151,462	137,151	288,613				
Flood control	59,656	135,225	194,881				
Recreation	267	24,428	24,695				
Tributary area development	20	17,555	17,575				
Total	\$523,704	\$ <u>491,805</u>	\$ <u>1,015,509</u>				

2. Summary of significant accounting policies--Power accounts are kept in accordance with the uniform system prescribed for electric utilities by the Federal Power Commission.

Plant additions and retirements--Additions to plant are recorded at cost, which includes material, labor, overhead, and allowance for funds used. The costs of generation including amortization of nuclear fuel, less credit for the fair value of energy generated during preliminary operations prior to commercial acceptance, are also included in the recorded cost of steam and nuclear generating plants. Except for chemical plant, plant retirements (including original cost and removal cost less salvage) are charged against appropriate accumulated depreciation accounts. Because of the experimental nature of fertilizer and munitions development, losses on early retirement of chemical plant are included in current year operations.

Depreciation and depletion--Straight-line depreciation is provided for substantially on a composite basis. Rates of depreciation are derived from engineering studies of useful life and are reviewed each year. Depletion of coal land and land rights and phosphate land and mineral rights is provided on a unit of production basis.

Allowance for funds used—The practice of capitalizing an allowance for funds used during construction and during the fabrication of nuclear fuels is followed in the power program. The rate is established at the beginning of each 6-month period on the basis of the cost of borrowings during the preceding 12 months. Rates used were 6.5 percent and 7.5 percent during 1974 and 6.0 percent and 6.0 percent during 1973.

Repairs and maintenance—The cost of current repairs and minor replacements is charged to appropriate operating expense and clearing accounts, and the cost of renewals and betterments is capitalized.

Nuclear fuel amortization--The amortization of nuclear fuel is provided on a unit of production basis. Rates are established to amortize the costs over the useful life.

Operating revenues -- Revenues from the sale of electric energy include only the amounts billed during the period.

Borrowing expenses-Expenses, discounts, and premiums on power borrowings are amortized on a straight-line basis over the term of the related securities. Amortization of discount on short-term notes is charged to other interest expense.

3. Estimates of cost to complete major construction projects, commitments, and rental expenses—The cost to complete the major power projects (including nuclear fuel) under construction or authorized for construction at June 30, 1974, is estimated to be \$5,852,700,000 including commitments of \$1,688,600,000 for materials and services contracted for and not delivered. The corresponding estimate for multipurpose and nonpower projects is \$171,600,000, including commitments of \$5,134,000.

On June 22, 1972, the TVA Board of Directors approved a Utility Contribution Agreement with Breeder Reactor Corporation (BRC), a District of Columbia nonprofit corporation. The agreement obligates TVA to pay to Breeder Reactor Corporation the sum of \$21.7 million over a 10-year period with equal annual payments beginning December 31, 1972, and ending December 31, 1981. The payment is on behalf of TVA and its distributors in support of the Nation's first commercial-scale liquid metal fast breeder reactor demonstration plant project. At June 30, 1974, the remaining commitment was \$16,275,000.

The total rentals charged to power operating expenses and other operating clearing accounts for the years ending June 30, 1974 and 1973, amounted to approximately \$11,931,000 and \$11,350,000, respectively. At June 30, 1974, the aggregate minimum gross rental commitments of TVA under all noncancelable leases for the periods shown are as follows:

Year	Amount	Years	Amount
	(Thousands)		(Thousands)
1975 1976 1977 1978 1979	\$9,826 9,270 8,696 8,333 8,318	1980-84 1985-89 1990-94 Thereafter	\$38,148 5,251 226 326

NOTES-CONTINUED

Minimum gross rental commitments include rentals paid under agreements with the City of Memphis, Tennessee, which provide that (1) TVA sells to the City all the power and energy requirements of its electric distribution system, and (2) the City leases to TVA the Thomas H. Allen steam-electric generating plant with an installed capacity of 990,000 kilowatts. Each agreement is for a term of 20 years, beginning January 1, 1965. The lease agreement provides for annual rental payments of \$6,900,000 and grants TVA an option to buy the plant for \$2,000,000 at the end of the lease term.

4. Appropriation investment-Changes in appropriation investment during the years ended June 30, 1974 and 1973, were as follows:

	Power program 1974 1973			All programs 1974 1973				
				(Thous	ands)		-	
Congressional appropriations Transfers of property from	\$	135	\$	226*	\$	45,676	\$	64,550
other Federal agencies		323 458		21 <u>2</u> 14*	_	399 46,075	_	343 64,893
Less repayments to General Fund of the U.S. Treasury Increase or decrease* for	_	20,000		20,000		20,012	_	20,029
the period		19,542*		20,014*		26,063		44,864
Balance, beginning of period	1,0	34,790	1,	,054,804	2	,279,851	2	,234,987
Balance, end of period	\$ <u>1,0</u>	15,248	\$ <u>1</u>	,034,790	\$ <u>2</u>	,305,914	\$ <u>2</u>	,279,851

*Deduct

An additional appropriation of \$77,400,000 as of July 1, 1974, is pending action in the Congress.

5. Payments to the U.S. Treasury--Section 15d of the TVA Act requires the payment from net power proceeds of a return on the net appropriation investment in power facilities plus repayments of such investment, beginning with fiscal year 1961. The amount of return payable during each year is based on the appropriation investment as of the beginning of that year and the computed average interest rate payable by the U.S. Treasury on its total marketable public obligations as of the same date. The repayment schedule calls for payment of not less than \$10 million for each of the first five years (1961-1965), \$15 million for each of the next five years (1966-1970), and \$20 million for each year thereafter until a total of \$1 billion shall have been repaid. The payments required by Section 15d may be deferred under certain circumstances for not more than two years.

Required payments have been made as follows:

	Return	Repayment (Thousands)	Total
Total to June 30, 1973	\$622,988	\$185,000	\$807,988
Year ended June 30, 1974	63,422	20,000	83,422
	\$ <u>686,410</u>	\$205,000	\$891,410

For 1975 the required payments will be \$71,372,000 as a return on the appropriation investment at the computed average interest rate of 7.030 percent and \$20,000,000 as a repayment, a total of \$91,372,000.

In addition to the payments from net power proceeds, \$12,000 of nonpower proceeds was paid to the U.S. Treasury in 1974 under the provisions of Section 26 of the TVA Act. This brought the total payments from nonpower proceeds to \$41,626,000.

Prior to 1961, under then existing legislation, TVA paid to the Treasury \$185,059,000 of power proceeds. In addition to the repayments indicated in Exhibit I, \$65,072,000 of bonds sold to the Treasury and Reconstruction Finance Corporation in fiscal years 1939-1941 have been fully repaid from power proceeds. Section 26 of the TVA Act provides for annual payments to the Treasury of any power or nonpower proceeds not needed for the operation of dams and reservoirs, the conduct of the power program, and the manufacture and distribution of fertilizers.

NOTES-CONTINUED

6. Borrowing authority—Section 15d of the TVA Act authorizes TVA to issue bonds, notes, and other evidences of indebtedness up to a total of \$5 billion outstanding at any one time to assist in financing its power program. Debt service on these obligations, which is payable solely from TVA's net power proceeds, has precedence over the payments to the U.S. Treasury described in note 5. Issues outstanding on June 30, 1974, consist of the following:

	(Thousands)
Long-term debt	
4.40% 1960 Series A, due November 15, 1985	\$ 50,000
4-5/8% 1961 Series A, due July 1, 1986	50,000
4-1/2% 1962 Series A, due February 1, 1987	45,000
5.70% 1967 Series A, due May 15, 1992	70,000
6-3/8% 1967 Series B, due November 1, 1992	60,000
8-1/4% 1969 Series B, due October 15, 1994	100,000
9% 1970 Series A, due March 15, 1995	100,000
9-1/4% 1970 Series B, due June 15, 1995	50,000
8-3/4% 1970 Series C, due June 15, 1975 (To be refinanced)	50,000
7-1/4% 1971 Series A, due July 1, 1976	100,000
7.30% 1971 Series B, due October 1, 1996	150,000
7% 1972 Series A, due January 1, 1997	150,000
7.35% 1972 Series B, due May 1, 1997	150,000
7.35% 1972 Series C, due July 1, 1997	150,000
7.40% 1972 Series D, due October 1, 1997	150,000
7.35% 1973 Series A, due January 1, 1998	100,000
7.35% 1973 Series B, due April 1, 1998	150,000
7-3/4% 1973 Series C, due July 1, 1998	150,000
7.70% 1973 Series D, due October 1, 1998	100,000
8.05% 1974 Series A, due January 1, 1999	100,000
8.10% 1974 Series B, due April 1, 1979	100,000
Total long-term debt	2,125,000
Short-term notes	
U.S. Treasury	100,000
Other	570,000
Total short-term notes	670,000
70 American Angele 111	
	\$2,795,000

The Federal Financing Bank Act enacted on December 29, 1973, permits designated Federal agencies, including TVA, to borrow directly from the Federal Financing Bank in order to reduce the cost of Federal borrowings. On July 11, 1974, the TVA Board of Directors approved issuance of short-term notes payable to the Federal Financing Bank, not to exceed \$350 million outstanding at any one time.

- 7. Retirement plan—TVA has a contributory retirement plan which covers substantially all of its salaried employees. The cost of currently accruing benefits is funded currently, and the unfunded prior service cost is being amortized and funded over a period of 32 years from July 1, 1973. Certain actuarial assumptions used in determining 1974 cost were changed upon recommendation by the actuary; the net effect of the changes reduced the 1974 cost by \$2.2 million. The cost of the plan to TVA for the years ended June 30, 1974 and 1973, was \$18,104,000 and \$18,683,000, respectively.
- 8. <u>Litigation</u>—On July 5, 1972, the Environmental Defense Fund and other plaintiffs filed suit to enjoin TVA from constructing the Duck River project, consisting of the Normandy and Columbia Dams, on various grounds, including alleged failure to comply with the National Environmental Folicy Act (NEPA) by, among other things, filing an inadequate environmental impact statement for the project. Following a trial on the NEPA issues, all other issues having been decided in TVA's favor by an earlier court order, the District Court found on March 7, 1974, that the environmental impact statement was deficient in four areas and thereafter enjoined construction of the project effective midnight, March 30, 1974. On TVA's motions the District Court subsequently stayed the injunction through June 29, 1974, to enable work on the project to continue while TVA complied with the law. During the period the injunction has been stayed, TVA has prepared and circulated a draft supplement to the environmental impact statement addressing the deficiencies found by the court in its March 7 memorandum. TVA filed a final supplement with the Council on Environmental Quality on June 18, 1974. On June 14, 1974, plaintiffs filed a notice of appeal to the United States Court of Appeals for the Sixth Circuit from the District Court's order staying the injunction through June 29. On TVA's motion the District Court on July 1, 1974, further stayed the injunction pending appeal and any action for certiforari thereon and until further order of the court. On July 29, 1974, the Court of Appeals denied appellants' motion for an injunction pending appeal and on its own motion dismissed the appeal as moot. Counsel for TVA believe that the revised environmental impact statement complies with the National Environmental Policy Act.

On October 25, 1972, the Natural Resources Defense Council and five other plaintiffs filed suit in the District Court to enjoin TVA from accepting coal under four specified contracts and from entering into any future contracts calling for the purchase of strip-mined coal. Plaintiffs alleged that TVA is violating the National Environmental Policy Act by not on its policies concerning its coal procurement program was inadequate. It was, and is, the view of counsel for TVA that the environmental statement complies with the National Environmental Policy Act. On August 13, 1973, the District Court entered a judgment dismissing the action. The court held, among other things, that TVA is not required to file a separate environmental statement for each contract and that TVA's coal policy environmental statement is adequate compliance with the National Environmental Policy Act. The plaintiffs appealed the District Court's decision and the case was argued orally before the Sixth Circuit Court of Appeals on June 10, 1974. No opinion has been rendered by the Court of Appeals.

TENNESSEE VALLEY AUTHORITY COMPLETED PLANT

JUNE 30, 1974

,			and depletion
		Provision year ended	Accumulated balance
_	Assets	June 30, 1974	June 30, 1974
Power			
Multipurpose dams System allocation	\$ 430,342,614 59,402,668	\$ 5,805,942	\$ 161,066,498
Project allocations Single-purpose dams	65,869,215	883,822 880,587	6,861,289 25,423,737
Steam production plants	2,137,259,572	58,176,949	699,802,539
Other electric plant	1,369,060,120	33,125,202	349,259,790
Total power	4,061,934,189	98,872,502	1,242,413,853
Navigation			
Multipurpose dams	008 205 801	0 005 550	E0 120 628
System allocation Project allocations	228,395,891 60,217,025	2,205,559 557,140	50,139,638 4,252,779
Single-purpose navigation	00,211,027)) ;±=0	7,2,2,117
plant	7,063,239		
Total navigation	295,676,155	2,762,699	54,392,417
Flood control			
Multipurpose dams	300 03E 010	2 206 002	25 0(2 70)
System allocation	180,317,242 14,563,868	1,186,881	35,963,138
Project allocations Single-purpose flood control	14,703,000	89,297	482,615
plant	2,191,278	13,537	119,670
Total flood control	197,072,388	1,289,715	36,565,423
Tributary area development			-
Multipurpose dams Project allocations	17,575,405	99,366	466,842
Recreation and conservation education			
Multipurpose dams	ah (ah 500	305.050	201 200
Project allocations	24,694,528	127,279	296,302
Iand Between The Lakes Other recreation plant	49,062,694 1,134,791	413,268 29,571	2,411,948 84,886
Total recreation and			
conservation education	74,892,013	570,118	2,793,136
Chemical	68,278,341	2,427,604	23,734,784
General	45,810,490	2,340,523	20,439,687
Total	\$ <u>4,761,238,981</u>	\$108,362,52 7	\$1,380,806,142
Total completed plant Multipurpose dams			
System allocation	\$ 839,055,747	\$ 9,198,382	\$ 247,169,274
Project allocations	176,453,494	1,756,904	12,359,827
	1,015,509,241	10,955,286	259,529,101
Single-purpose dams	65,869,215	880,587	25,423,737
Steam production plants Other electric plant	2,137,259,572 1,369,060,120	58,176,949 33,125,202	699,802,539 349,259,790
Other plant	173,540,833	5,224,503	46,790,975
Total	\$ <u>4,761,238,981</u>	\$108,362,527	\$1,380,806,142

TENNESSEE VALLEY AUTHORITY CONSTRUCTION AND INVESTIGATIONS IN PROGRESS JUNE 30, 1974

	Power program	All programs
Construction in progress' Generating facilities Browns Ferry Nuclear Plant Sequoyah Nuclear Plant Watts Bar Nuclear Plant Proposed Bellefonte Nuclear Plant Proposed Hartsville Nuclear Plant	\$ 693,867,435 422,457,822 137,042,975 36,317,171 6,749,543	\$ 693,867,435 422,457,822 137,042,975 36,317,171 6,749,543
Cumberland Steam Plant Johnsonville gas turbine units 1-10 Raccoon Mountain pumped storage project Total generating facilities	2,913,139 65,741 129,776,114 1,429,189,940	2,913,139 65,741 129,776,114 1,429,189,940
Transmission lines, substations, and other additions to power facilities	118,941,864	118,941,864
Navigation facilities		384,247
Flood control facilities		531,347
Multipurpose facilities Tellico Dam and Reservoir Columbia Dam and Reservoir Normandy Dam and Reservoir Bear Creek water control system Other Total multipurpose facilities	291,519 291,519	41,056,575 4,133,321 18,518,665 9,178,424 704,578 73,591,563
Chemical plant		2,307,905
Recreation and conservation education facilities Land Between The Lakes Other recreation facilities Total recreation and conservation education facilities		4,163,109 949,013 5,112,122
General plant General construction equipment and materials Other additions to general plant Total general plant Total construction in progress	387,730 387,730 1,548,811,053	892,661 979,750 1,872,411 1,631,931,399
Investigations for future projects Power facilities Navigation facilities Flood control facilities Multipurpose facilities	3,149,632	3,149,632 117,903 528,823 22,313
Total investigations for future projects	3,149,632	3,818,671
Total construction and investigations in progress	\$1,551,960,685	\$1,635,750,070

DETAILS OF POWER EXPENSE

FOR THE YEAR ENDED JUNE 30, 1974

		Provision for	Total before depreciation			
SUMMARY	Total	aepreciation	(exhibit II)	Operation	Maintenance	Other
Production						
Multipurpose dams						_
Direct	\$ 11,884,404	\$ 5,463,262	\$ 6,421,122	\$ 3,566,379	\$ 2,854,743	\$ -
Multiple-use; schedule E	4,889,977	1,226,482	3,663,495 2,012.852	2,745,897	917,598	-
Single-purpose dams	2,893,439 11,941,195	880,587	11,941,195	919,781	1.093,071	11,941,195
Cumberland Basin projects; note a	476,263,706	58,176,949	418,086,757	363,616,896	54,469,861	,,,-,-
Steam plants Gas turbine plants	7,818,500	2,613,149	5,205,351	4,787,560	417,791	_
Total generation	515,691,221	68,360,449	447,330,772	375,636,513	59,753,064	11,941,195
Purchased power	15,395,808	· -	15,395,808	-	_	15,395,808
Interchange power received	18,866,332	=	18,866,332	-	-	18,866,332
Interchange power delivered	16,925,513*		16,925,513*	-	-	16,925,513*
System control and load dispatching	1,520,619	25,761	1,494,858 27,994,143	-	-	1,494,658
Other	27,994,143 562,542,610	68,386,210	494,156,400	375,636,513	59,753,c64	27,994,143 58,766,823
Total production	47,559,538	26,712,896	20,846,642	12,395,150	8,451,492	70,100,023
Transmission Customer accounts	494,198	-	494,198	494.198		_
Demonstration of power use	1,282,503	-	1,282,563	1,282,563	_	-
Payments in lieu of taxes; note b	31,118,477	-	31,118,477	· · · · · -	-	31,118,477
Social security taxes	4,610,673	-	4,610,673	-	-	4,610,673
Administrative and general	_			- ,		
Direct	31,759,238	1,983,882	29,775,356	29,772,934	2,422	-
Multiple-use	131,940		131,940	131,940		
Total operating expense	\$679,499,177	\$ <u>97</u> ,082,988	\$582,416,169	\$419,713,238	\$68,206,978	\$94,445,973
		less station use		reciation caps Per kWh June	acity at gros 30.1974 to	o or average s generation installed
SYSTEM STATISTICS			including depr	reciation caps Per kWh June	acity at gros 30.1974 to	s reneration
Generation		less station use	including dep	reciation caps Per kWh June	acity at gros 30.1974 to	s veneration installed
Generation Multipurpose dams		less station use (thousands)	including depo	Per kWh June (mills) (All	acity at gros 30, 1974 to Lowatts) capac	s generation installed ity (percent)
Generation Multipurpose dams Direct		less station use	Total \$ 11,084,404	Per kWh June (mills) (All	acity at gros 30.1974 to	s veneration installed
Generation Multipurpose dams Direct Multiple-use; schedule E		less station use (thousands)	including depo	Per kWh June (mills) (all	acity at gros 30, 1974 to Lowatts) capac	s generation installed ity (percent)
Generation Multipurpose dams Direct Multiple-use; schedule E Total multipurpose dams		15,976,131 15,976,131 15,991,166	Total \$ 11,004,404 \$ 16,774,302 2.503,439	Capa	acity at gros 30. 1974 to constant constant gros capace 99.2.470	s generation installed ity (percent)
Generation Multipurpose dams Direct Multiple-use; schedule E		15,976,131 15,976,131 15,976,131 1,509,166 3,643,040	11,004,404 \$ 11,004,404 4,009,917 16,774,501	Capa	ecity at gros 30. 1974 to cowatts) capac c	s generation installed ity (percent) 61.99 61.99 70.69 51.17
Generation Multipurpose dams Direct Multiple-use; schedule E Total multipurpose dams Single-purpose dams Cumberland Basin projects; note a Alcoa dams; note c		15,976,131 15,976,131 1,509,166 3,643,04c 2,408,030	Total \$ 11,004,404 \$ 16,774,302 2.503,439	Cape Per Wh June	acity at gros 30. 1974 to capac (952.476 24.76 24.76 24.76 24.76 24.76 24.715 (6.65)	8 veneration installed ity (percent) 61.09 61.09 70.69 51.17 65.60
Generation Multipurpose dams Direct Multiple-use; schedule E Total multipurpose dams Single-purpose dams Cumberland Basin projects; note a Alcoa dams; note c Total hydro generation		15,976,131 15,976,131 1,509,166 3,643,04c 2,408,030 23,536,367	* 11,084,404 * 11,084,404 4,189,917 16,774,30 2,803,439 11,941,299	Revisition Cape Per Wh June	acity at gros 36, 1974 to capac (952,476 at ,,46 c 655,40 d 445,515 d 475,45 d 5 d 445,515 d 445	61.09 61.09 61.17 c5.60 66.77
Generation Multipurpose dams Direct Multiple-use; schedule E Total multipurpose dams Single-purpose dams Cumberland Basin projects; note a Alcoa dams; note c Total hydro generation Steam plants		15,976,131 15,976,131 15,976,131 1,509,166 3,643,04c 2,408,030 23,536,367 83,437,815	Total \$ 11,074,304	Cape Per Wh June June Cape Cape Cape Cape June Cape Cape	acity at gros 30, 1974 to colowatts) capac 476	s generation installed ity (percent) 61.49 61.99 70.69 51.17 05.60 60.77 51.05
Generation Multipurpose dams Direct Multiple-use; schedule E Total multipurpose dams Single-purpose dams Cumberland Basin projects; note a Alcoa dams; note c Total hydro generation Steam plants Gas turbine plants		15,976,131 15,976,131 15,976,131 1,509,166 3,643,040 2,408,030 23,536,367 83,437,815 291,658	* 11,084,404 * 11,084,404 4,189,917 16,774,30 2,803,439 11,941,299	Column Cape Per Wh June J	acity at gros 30. 1974 to capac (1972. 1976 capa	s generation installed ity (percent) 61.09 61.09 61.99 70.69 51.17 65.60 60.77 55.69
Generation Multipurpose dams Direct Multiple-use; schedule E Total multipurpose dams Single-purpose dams Cumberland Basin projects; note a Alcoa dams; note c Total hydro generation Steam plants Gas turbine plants Total commercial generation; note d		15,976,131 15,976,131 1,509,166 3,643,04c 2,408,030 23,536,367 83,437,815 291,658 107,265,640	### Total ### 11,000,400,400 ### 11,000,400,400,400,400,400,400,400,400,4	Column Cape Per Wh June J	acity at gros 30, 1974 to colowatts) capac 476	s generation installed ity (percent) 61.49 61.99 70.69 51.17 05.60 60.77 51.05
Generation Multipurpose dams Direct Multiple-use; schedule E Total multipurpose dams Single-purpose dams Cumberland Basin projects; note a Alcoa dams; note c Total hydro generation Steam plants Gas turbine plants Total commercial generation; note d Purchased power		15,976,131 15,976,131 15,976,131 1,509,166 3,643,040 2,408,030 23,536,367 83,437,815 291,658	Total \$ 11,074,304	Column Cape Per Wh June J	acity at gros 30. 1974 to capac (1972. 1976 capa	s generation installed ity (percent) 61.09 61.09 61.99 70.69 51.17 65.60 60.77 55.69
Generation Multipurpose dams Direct Multiple-use; schedule E Total multipurpose dams Single-purpose dams Cumberland Basin projects; note a Alcoa dams; note c Total hydro generation Steam plants Gas turbine plants Total commercial generation; note d		15,976,131 15,976,131 1,509,166 3,643,04c 2,408,030 23,536,367 83,437,815 291,658 107,265,840 1,046,677 £,520,868	### Total ### 11,000,000 ### 11,000,000 ### 11,000,000 ### 11,000,000 #### 11,000 #### 11,000 #### 11,000 #################################	The second column	acity at gros 30. 1974 to capac (1972. 1976 capa	s generation installed ity (percent) 61.09 61.09 61.99 70.69 51.17 65.60 60.77 55.69
Generation Multipurpose dams Direct Multiple-use; schedule E Total multipurpose dams Single-purpose dams Cumberland Basin projects; note a Alcoa dams; note c Total hydro generation Steam plants Gas turbine plants Total commercial generation; note d Purchased power Interchange power received		15,976,131 15,976,131 1,509,166 3,643,040 2,408,030 23,536,367 83,437,815 291,658 107,265,840 1,046,677 £,520,868 2,593,889	### Total ### 11,024,404 ###,169,977 16,774,301 ###,255 11,941,255 ####,263,700 ###,263,700 ###,263,700 ###,263,700 ###,263,700 ###,263,700 ###,263,700 ###,263,700 ###,263,700 ###,263,700 ###,263,700 ###,263,700 ###,263,700 ###,263,700 ###,263,700 ###,263,700 ####,263,700 ####,263,700 ###################################	The second column	acity at gros 30. 1974 to capac (1972. 1976 capa	s generation installed ity (percent) 61.09 61.09 61.99 70.69 51.17 65.60 60.77 55.69
Generation Multipurpose dams Direct Multiple-use; schedule E Total multipurpose dams Single-purpose dams Cumberland Basin projects; note a Alcoa dams; note c Total hydro generation Steam plants Gas turbine plants Total commercial generation; note d Purchased power Interchange power received System control and load dispatching Other; note e Total system input		15,976,131 15,976,131 15,976,131 1,509,166 3,643,040 2,408,030 23,536,367 83,437,815 291,658 107,265,840 1,046,677 €,520,668 2,593,869 119,427,274	### Total ### 11,000,000 ### 11,000,000 ### 11,000,000 ### 11,000,000 #### 11,000 #### 11,000 #### 11,000 #################################	The second column	acity at gros 30. 1974 to capac (1972. 1976 capa	s generation installed ity (percent) 61.09 61.09 61.99 70.69 51.17 65.60 60.77 55.69
Generation Multipurpose dams Direct Multiple-use; schedule E Total multipurpose dams Single-purpose dams Cumberland Basin projects; note a Alcoa dams; note c Total hydro generation Steam plants Gas turbine plants Total commercial generation; note d Purchased power Interchange power received System control and load dispatching Other; note e Total system input Delivered under Alcoa agreement		15,976,131 15,976,131 1,509,166 3,643,04c 2,408,030 23,536,367 83,437,815 291,658 107,265,840 1,046,677 £,520,868 2,593,£9 119,427,274 1,849,496*	# 11,004,404 # 11,004,404 # 11,004,404 # 169,977 # 16,774,302 # 2,03,439 # 11,941,295 # 170,263,700	744 2.306 1.07 2.37 2.37 2.0.007 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.3	acity at gros 30. 1974 to capac (1972. 1976 capa	s generation installed ity (percent) 61.09 61.09 61.99 70.69 51.17 65.60 60.77 55.69
Generation Multipurpose dams Direct Multiple-use; schedule E Total multipurpose dams Single-purpose dams Cumberland Basin projects; note a Alcoa dams; note c Total hydro generation Steam plants Gas turbine plants Total commercial generation; note d Purchased power Interchange power received System control and load dispatching Other; note e Total system input Delivered under Alcoa agreement Interchange power delivered		15,976,131 15,976,131 1,509,166 3,643,04c 2,408,030 23,536,367 83,437,815 291,658 107,265,840 1,046,677 £,520,868 2,593,889 119,427,274 1,849,496* £,408,179*	# Total # 11,074,404 #,569,977 16,774,501 2,503,439 11,941,299 470,263,700 7,518,500 10,395,508 10,500,610 27,994,143	reciation caps Per kWh June (mills) (κι: .7544 2: .306 1.006 1.017 3.27c	acity at gros 30. 1974 to capac (1972. 1976 capa	s generation installed ity (percent) 61.09 61.09 61.99 70.69 51.17 65.60 60.77 55.69
Generation Multipurpose dams Direct Multiple-use; schedule E Total multipurpose dams Single-purpose dams Cumberland Basin projects; note a Alcoa dams; note c Total hydro generation Steam plants Gas turbine plants Total commercial generation; note d Purchased power Interchange power received System control and load dispatching Other; note e Total system input Delivered under Alcoa agreement Interchange power delivered Net energy supply		15,976,131 15,976,131 1,509,166 3,643,040 2,408,030 23,536,367 83,437,815 291,658 107,265,5840 1,046,677 £,520,868 2,593,£89 119,427,274 1,£49,496* £,408,179* 109,169,799	# 11,004,404 # 11,004,404 # 11,004,404 # 169,977 # 16,774,302 # 2,03,439 # 11,941,295 # 170,263,700	reciation caps Per kWh June (mills) (κι: .7544 2: .306 1.006 1.017 3.27c	acity at gros 30. 1974 to capac (1972. 1976 capa	s generation installed ity (percent) 61.09 61.09 61.99 70.69 51.17 65.60 60.77 55.69
Generation Multipurpose dams Direct Multiple-use; schedule E Total multipurpose dams Single-purpose dams Cumberland Basin projects; note a Alcoa dams; note c Total hydro generation Steam plants Gas turbine plants Total commercial generation; note d Purchased power Interchange power received System control and load dispatching Other; note e Total system input Delivered under Alcoa agreement Interchange power delivered Net energy supply Shop and internal uses		15,976,131 15,976,131 1,509,166 3,643,04c 2,408,030 23,536,367 83,437,815 291,658 107,265,840 1,046,677 £,520,868 109,427,274 1,849,496* £,408,179* 109,169,599 109,169,599	# Total # 11,074,404 #,569,977 16,774,501 2,503,439 11,941,299 470,263,700 7,518,500 10,395,508 10,500,610 27,994,143	reciation caps Per kWh June (mills) (κι: .7544 2: .306 1.006 1.017 3.27c	acity at gros 30. 1974 to capac (1972. 1976 capa	s generation installed ity (percent) 61.09 61.09 61.99 70.69 51.17 65.60 60.77 55.69
Generation Multipurpose dams Direct Multiple-use; schedule E Total multipurpose dams Single-purpose dams Cumberland Basin projects; note a Alcoa dams; note c Total hydro generation Steam plants Gas turbine plants Total commercial generation; note d Purchased power Interchange power received System control and load dispatching Other; note e Total system input Delivered under Alcoa agreement Interchange power delivered Net energy supply		15,976,131 15,976,131 1,509,166 3,643,040 2,408,030 23,536,367 83,437,815 291,658 107,265,5840 1,046,677 £,520,868 2,593,£89 119,427,274 1,£49,496* £,408,179* 109,169,799	# Total # 11,074,404 #,569,977 16,774,501 2,503,439 11,941,299 470,263,700 7,518,500 10,395,508 10,500,610 27,994,143	reciation caps Per kWh June (mills) (κι: .7544 2: .306 1.006 1.017 3.27c	acity at gros 30. 1974 to capac (1972. 1976 capa	s generation installed ity (percent) 61.09 61.09 61.99 70.69 51.17 65.60 60.77 55.69

- Notes:

 a. TVA purchases substantially all of the output of eight hydro plants in the Cumterland River Essin. In a certainse with memoranaums the Cumterland River Essin. In a certainse with memoranaums that the Cumterland Basin property are operated for optimum of understanding with the Corps of Engineers, Department of the Army, the Cumberland Basin projects are operated for optimum production of power in conjunction with TVA's power system, subject to flood entrol navigation, and other operating requirements
 - b. Payments made to states and counties in which power operations are carried out. The tasic amount is 5 percent of gross revenues from the sale of power to other than Federal agencies during the preceding year, with the provision of minimum payments under certain circumstances.
 - c. Operation of twelve hydro plants of the Aluminum Company of America is coordinated with the operation of TVA's power plants under an arrangement whereby the storage and release of water from the Alcoa plants are carried out by the company under TVA's direction.
 - d. Installed capacity increased 1,426,550 kilowatts during fiscal year 1974. Additions consisted of the second 1.300.000-kilowatt generating unit at the Cumberland Steam Plant, 100,000 kilowatts in three units at the new Cordell Hull Fam in the Cumberland Basin, and 26,550 kilowatts from modifications to two generators.
 - e. "kWh generated" included 2,593,889,000 kWh generated during test runs of the scient generating unit at the Cumberland Steam Plant and of the first unit at the Browns Ferry Nuclear Plant. The expenses of the generation, less credit for the fair value of energy delivered to the TVA power system, were charged to construction.

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TENNESSEE VALLEY AUTHORITY DETAILS OF NONPOWER NET EXPENSE FOR THE YEAR ENDED JUNE 30, 1974

	Direct	Multiple-use (schedule E)	Total
WATER RESOURCES DEVELOPMENT			
Navigation operations Studies and investigations			
Navigation engineering and investigations	\$ 998,549	\$ -	\$ 998,549
Administrative and general expenses; schedule F	48,626	T	48,626
	1,047,175		1,047,175
Operation and maintenance of facilities Operation	13,777	1,671,335	1,685,112
Maintenance	21,784	632,862	654,646
Administrative and general expenses	•	83,962	83,962
Provision for depreciation	1,824,196	938,504	2,762,700
	1,859,757	3,326,663	5,186,420
Total expense of navigation operations	\$ <u>2,906,932</u>	\$ <u>3,326,663</u>	6,233,595
Flood control operations			
Studies and investigations	h 255 555		
System studies and investigations Local flood studies and cooperation with other	\$ 355,577	\$ -	355,577
agencies	510,168	~	510,168
Administrative and general expenses; schedule F	28,366		28,366
Operation and maintenance of facilities	894,111		894,111
Operation and maintenance of facilities	130,479	2,011,532	2,142,011
Maintenance	-	662,493	662,493
Administrative and general expenses	262 7 26	99,955	99,955
Provision for depreciation	361,456 491,935	928,258 3,702,238	1,289,714 4,194,173
Local flood control improvements	440,757	3,102,230	440,757
Total expense of flood control operations	\$1,826,803	\$3,702,238	5,529,041
Recreation projects			
Recreation resources development	\$ 612,353	\$ -	612,353
Administrative and general expenses; schedule F	<u>52,679</u>		52,679
Operation and maintenance of facilities	665,032		665,032
Operation	-	1,566,047	1,566,047
Maintenance	37,913	5,330	43,243
Administrative and general expenses Provision for depreciation	36 , 247	79,964 120,603	79,964 156,850
110/101010 101 depicolauton	74,160	1,771,944	1,846,104
Total expense of recreation projects	\$ 739,192	\$1,771,944	2,511,136
	+ 1029-20		2,722,250
Regional water quality management			
Regional water quality management Provision for depreciation			1,461,201 37,868
Administrative and general expenses; schedule F			47,276
Total expense of regional water quality			
management			1,546,345
Fighanias and wetenfowl magniness development			
Fisheries and waterfowl resources development Fisheries resource assessment			169,670
Fisheries resource management and use			193,322
Waterfowl management and use			138,163
Provision for depreciation Administrative and general expenses; schedule F			11,541
			27,015
Total expense of fisheries and waterfowl resources development			E20 711
1000d1000 dovolopmento			539,711

SCHEDULE D

TENNESSEE VALLEY AUTHORITY

DETAILS OF NONPOWER NET EXPENSE

FOR THE YEAR ENDED JUNE 30, 1974

WATER RESOURCES DEVELOPMENT - continued Preliminary surveys and engineering Preliminary surveys and engineering (including \$605,391 related to abandoned projects) Administrative and general expenses; schedule F		\$ 848,302 14,858
Total expense of preliminary surveys and engineering		863,160
Total expense of water resources development		\$17,222,988
Developmental production Cost of products distributed; note a Materials used Direct manufacturing and shipping expense Indirect manufacturing and shipping expense Provisions for depreciation and depletion Recoveries from byproducts and in-process materials In-process inventory changes Finished inventory changes Exchange products shipped Total cost of products distributed General expenses Loss on retirements of manufacturing plant and equipment, net Gain on sale of phosphate reserves, net Other general expenses Administrative and general; schedule F Shipping order and field inventory expense Provision for depreciation of idle manufacturing plant and equipment Other, including depreciation of \$2,565* Total general expenses Total production expense Less transfers and sales of products Transfers to TVA programs, at market prices Fertilizer industry demonstrations Farm test demonstrations Agricultural projects Other Total transfers Direct sales Total transfers and sales Net expense of developmental production	\$ 524,711 246,891 83,346 308,008	\$ 7,083,339 15,892,906 2,605,019 2,401,608 474,354* 49,277 1,125,748* 95,994* 26,336,053 1,003,828 98,420* 1,162,956 2,068,364 28,404,417 22,475,393 430,942 421,853 95,405 23,423,593 431,141 23,854,734 4,549,683
Fertilizer introduction Fertilizer industry demonstrations Fertilizers used Educational distribution expense Administrative and general expenses; schedule F Less industry payments for fertilizer; note b Farm test demonstrations outside the Valley Fertilizers used Planning and supervision Administrative and general expenses; schedule F Less farmer payments for fertilizer Net expense of fertilizer introduction *Deduct	1,333,024 59,350 635,423 25,628	22,475,393 1,392,374 23,867,767 22,057,287 1,810,480 430,942 661,051 1,091,993 283,410 808,583 2,619,063

TENNESSEE VALLEY AUTHORITY DETAILS OF NONPOWER NET EXPENSE FOR THE YEAR ENDED JUNE 30, 1974

FERTILIZER AND MUNITIONS DEVELOPMENT - continued		
Research and development . Research and development of products and processes		
Applied research		\$ 963,028
Process engineering		1,156,140 696,358
General expenses		2,815,526
Research and development of processes for recovery of sulfur		187,662
Basic chemical and agronomic research		2,322,056
Provision for depreciation Administrative and general expenses; schedule F		97,993 226,611
		5,649,848
Total expense of research and development		7,049,040
Net expense of fertilizer and munitions development		\$12,818,594
GENERAL RESOURCES DEVELOPMENT Agricultural projects		
Valley agricultural resources development		
. Fertilizers used		\$ 415,909
Planning and supervision		945,853 1,361,762
Less farmer payments for fertilizer		356,166
	4 -0 -1 -	1,005,596
Special agricultural investigations and technical assistance Agribusiness development	\$ 78,545 83,460	
Program planning and analysis	91,214	
High-income agricultural enterprises, including fertilizers	0	
used of \$5,944 Studies of agricultural uses of heated water	81,776 133,223	
Economic evaluation of livestock waste disposal systems	19,728	
Tennessee Valley rural life conferences	59,233	4 . 4
Administrative and general expenses; schedule F	. <u>56,652</u>	603,831
Net expense of agricultural projects		1,609,427
Forest and wild land resources development		
Forest industry development		254,545
Forest and wildlife management and wildlife use Forest and wild land investigations		414,733 313,454
Improvement and establishment of wild land vegetation		340,197
Strip mine reclamation		116,399
Provision for depreciation Administrative and general expenses; schedule F		12,370 70,238
Total expense of forest and wild land resources		10,250
development		1,521,936
M.: h		
Tributary area development Basic investigations	•	369,602
Development assistance in specific tributary areas		1,505,646
Administrative and general expenses; schedule F		116,163
Multiple-use operating expenses; schedule E Operation and maintenance	114,760	
Provision for depreciation, including \$194 direct	99,366	
Administrative and general expenses	<u>3,998</u>	218,124
Total expense of tributary area development		2,209,535
Interagency health services demonstrations	•	
Interagency health services demonstrations		115,520
Administrative and general expenses; schedule F		4,052
Total interagency health services demonstrations		119,572
Regional development planning		
Regional development planning Administrative and general expenses; schedule F		599,797 36,470
Total expense of regional development planning		636,267
/		

TENNESSEE VALLEY AUTHORITY DETAILS OF NONPOWER NET EXPENSE FOR THE YEAR ENDED JUNE 30, 1974

GENERAL RESOURCES DEVELOPMENT - continued Townlift community improvement Townlift community improvement Administrative and general expenses; schedule F	\$ 713,108 31,067
Total expense of townlift community improvement	744,175
Demonstrations in education and manpower development Demonstrations in education and manpower development Administrative and general expenses; schedule F	667,475 63,485
Total expense of demonstrations in education and manpower development	730,960
Minerals projects Mineral resources investigations Administrative and general expenses; schedule F	259,536 9,455
Total expense of minerals projects	268,991
Environmental quality projects Regional air quality management Research on disposal of solid wastes Administrative and general expenses; schedule F	125,617 343,605 22,963
Total expense of environmental quality projects	492,185
Net expense of general resources development	\$ 8,333,048
LAND BETWEEN THE LAKES OPERATIONS Land Between The Lakes operations Provision for depreciation Administrative and general expenses; schedule F	\$ 2,016,317 413,268 68,888
Total expense of Land Between The Lakes operations	\$ 2,498,473
VALLEY MAPPING AND REMOTE SENSING Valley mapping and remote sensing Provision for depreciation Administrative and general expenses; schedule F	\$ 451,883 13,793 16,030
Total expense of valley mapping and remote sensing	\$ 481,706
OTHER EXPENSE OR INCOME* Emergency preparedness Maintenance of bridges financed by others on TVA dams Interest income from receivables	\$ 8,254 153,588 <u>27,272</u> *
Other expense, net.	\$134,570
NET EXPENSE	\$41,489,379

Notes:

a. In the discharge of its obligations under Section 5 of the TVA Act, TVA operates plants for the manufacture of products for agricultural and military purposes; conducts research and pilot plant development of new or improved processes for the production of new or existing fertilizers and munitions; and tests the fertilizers produced and demonstrates their effectiveness. Production is carried out on an experimental basis, and costs are consequently affected by the developmental nature of the manufacturing operations.

Research on products and processes is not scaled to TVA's production operations. Its scope is determined by opportunities to render service in the public interest; findings are made available to the public through technical publications, answers to correspondence, and discussions with technical visitors to the laboratories and plants. For these reasons, the cost of such research is accounted for under a separate program rather than as a part of production operations.

b. Sales of fertilizer materials are not on a commercial basis, but are made to organizations collaborating in an educational program aimed at improving the manufacture, distribution, and use of fertilizers.

OPERATING EXPENSES OF MULTIPLE-USE FACILITIES

FOR THE YEAR ENDED JUNE 30, 1974

Expenses

Operation

Water dispatching	\$ 1,373,019
Water control investigations	179,260
Investigations and control of reservoir ecology	1,138,287
Plant protection and services to visitors	1,628,331
Operation and upkeep of dam reservations	1,219,688
Reservoir land management	1,966,562
Development of water resource management methods	269,866
Other expense	325,086
Total operation	8,100,099
Administrative and general expenses; schedule F	399,819
Maintenance	2,227,755
Provision for depreciation	3,313,019
Total	\$ <u>1</u> 4,040,692

	Operation	Administrative and general	Maintenance	Depreciation	Total
Distributed to					
Power operations	\$2,745,897	\$131,940	\$ 917,598	\$1,226,482	\$ 5,021,917
Navigation operations	1,671,335	83,962	632,862	938,504	3,326,663
Flood control operations	2,011,532	99,955	662,493	928,258	3,702,238
Recreation projects	1,566,047	79,964	5,330	120,603	1,771,944
Tributary area development	105,288	3,998	9,472	99,172	217,930
Total	\$8,100,099	\$399,819	\$2,227,755	\$3,313,019	\$14,040,692

SCHEDULE F

TENNESSEE VALLEY AUTHORITY

ADMINISTRATIVE AND GENERAL EXPENSES

FOR THE YEAR ENDED JUNE 30, 1974

Expenses Board of directors Office of the general manager Planning and budget staffs Washington office Information office, including technical library service Equal employment opportunity staff Division of personnel Division of finance Division of law Division of property and supply Medical and safety services Other administrative and general	\$ 283,571 302,414 368,965 107,297 1,179,932 403,205 2,832,997 3,503,664 1,698,702 1,228,535 1,555,430 219,660
Other administrative and general Total	\$13,684,372

	Amount	Percent of total
Distributed to		
Construction	\$ 5,784,008	42.27
Recovered through services billed to others at cost	187,177	1.37
Expense of programs		
Power	5,762,785	42.11
Water resources development		
Navigation	48,626	. 36
Flood control	28,366	
Regional water quality management	47,276	.35
Fisheries and waterfowl resources development	27,015	
Preliminary surveys and engineering	14,858	.11
Recreation projects	52,679	
Multiple-use operations	399,819	2.92
Fertilizer and munitions development		_
Developmental production	524,711	
Fertilizer industry demonstrations	59,350	
Farm test demonstrations	25,628	
Research and development	226,611	1.66
General resources development		
Agricultural projects	56,652	
Forest and wild land resources development	70,238	
Tributary area development	116,163	.85
Interagency health services demonstrations	4,052	.03
Regional development planning	36,470	.27
Townlift community improvement	31,067	.23
Demonstrations in education and manpower development	63,485	.46
Minerals projects	9,455	.07
Environmental quality projects	22,963	.17
Land Between The Lakes operations	68,888	•
Valley mapping and remote sensing	16,030	
Total	\$13,684,372	100.00

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